

DATE: Sunday, May 04, 2003 Printable Copy Create Case

Set Nam side by sid		Hit Count	Set Name result set
DB = U	SPT; PLUR=YES; OP=OR		
<u>L8</u>	L7 not 13	5	<u>L8</u>
<u>L7</u>	L6 and l1	6	<u>L7</u>
<u>L6</u>	14 or L5	1018	<u>L6</u>
<u>L5</u>	zhou.in.	981	<u>L5</u>
<u>L4</u>	singletary.in.	38	<u>L4</u>
<u>L3</u>	11 and L2	1	<u>L3</u>
<u>L2</u>	curcuma	558	<u>L2</u> .
<u>L1</u>	starch adj (synthase\$ or synthetase\$)	142	<u>L1</u>

**END OF SEARCH HISTORY** 

# WEST

### **End of Result Set**

Generate Collection Print

L3: Entry 1 of 1

File: USPT

Jul 23, 2002

US-PAT-NO: 6423886

DOCUMENT-IDENTIFIER: US 6423886 B1

TITLE: Starch synthase polynucleotides and their use in the production

of new starches

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Singletary; George W. Ankeny IA Zhou; Lan Johnston IA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Pioneer Hi-Bred Des International, Inc. Moines IA 02

APPL-NO: 09/388743 [PALM]
DATE FILED: September 2, 1999

INT-CL: [07] C12 N 15/29, C12 N 15/82, C12 P 19/04, A01 H 5/00, A01 H 5/10

US-CL-ISSUED: 800/284; 800/286, 800/305, 800/306, 800/312, 800/314, 800/315, 800/317.1, 800/317.2, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3, 800/322, 435/69.1, 435/320.1, 435/419, 536/23.6, 536/24.5, 536/23.2

US-CL-CURRENT: 800/284; 435/320.1, 435/419, 435/69.1, 536/23.2, 536/23.6, 536/24.5, 800/286, 800/305, 800/306, 800/312, 800/314, 800/315, 800/317.1, 800/317.2, 800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3, 800/322

FIELD-OF-SEARCH: 536/23.6, 536/24.5, 536/23.2, 435/69.1, 435/320.1, 435/419, 800/284, 800/286, 800/305, 800/306, 800/312, 800/314, 800/317.1, 800/315, 800/317.2, 800/317.4, 800/320, 800/320.1-320.3, 800/322

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5824790	October 1998	Keeling et al.	536/23.6
<u>6130367</u>	October 2000	Kossmann	800/284

### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2205118	May 1996	CA	
WO 97/20936	June 1997	WO	
WO 97/26362	July 1997	WO	
WO 97/45545	December 1997	WO	

#### OTHER PUBLICATIONS

Kossmann, J. et al., "Transgenic plants as a tool to understand starch biosynthesis." 1995, Progress in Biotechnol., vol. 10, pp. 271-278.\* Denyer, K. et al. "Identification of multiple isoforms of soluble and granule-bound starch synthase in developing wheat endosperm." 1995, Planta, vol. 196, pp. 256-265.\*

Nakatani, M. et al., "Relationship between Starch Content and Activity of Starch Synthase and ADP-glucose Pyrophosphorylase in Tuberous Root of Sweet Potato." 1992, Jpn. J. Crop Sci., vol. 61, pp. 463-468.\* Salehuzzaman, S. et al., "Isolation and characterization of a cDNA encoding granule-bound starch synthase in cassava (Manihot esculenta Crantz) and its antisense expression in potato." 1993, Plant Molecular Biology, vol. 23, pp. 947-962.\*

Dry, I. et al., "Characterization of cDNAs encoding two isoforms of granule-bound starch synthase which show differential expression in developing storage organs of pea and potato," 1992, The Plant Journal, vol. 2, pp. 193-202.

ART-UNIT: 1638

PRIMARY-EXAMINER: Fox; David T.

ATTY-AGENT-FIRM: Pioneer Hi-Bred International, Inc.

#### ABSTRACT:

The invention provides isolated nucleic acids and their encoded proteins that are involved in starch biosynthesis. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions. The present invention provides methods and compositions relating to altering the amount and/or morphology of starch in plants.

56 Claims, 0 Drawing figures

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## Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 6399859 B1

L8: Entry 1 of 5

File: USPT

Jun 4, 2002

US-PAT-NO: 6399859

DOCUMENT-IDENTIFIER: US 6399859 B1

TITLE: Plant uridine diphosphate-glucose dehydrogenase genes,

proteins, and uses thereof



2. Document ID: US 6232529 B1

L8: Entry 2 of 5

File: USPT

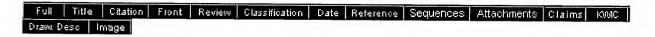
May 15, 2001

US-PAT-NO: 6232529

DOCUMENT-IDENTIFIER: US 6232529 B1

TITLE: Methods of producing high-oil seed by modification of starch

levels



3. Document ID: US 6013861 A

L8: Entry 3 of 5

File: USPT

Jan 11, 2000

US-PAT-NO: 6013861

DOCUMENT-IDENTIFIER: US 6013861 A

TITLE: Plants and processes for obtaining them

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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4. Document ID: US 5859333 A

L8: Entry 4 of 5

File: USPT

Jan 12, 1999

US-PAT-NO: 5859333

DOCUMENT-IDENTIFIER: US 5859333 A

TITLE: Plants and processes for obtaining them

Full Title Citation Front Review Classification Date Reference Sequences Attachments

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5. Document ID: US 5792920 A

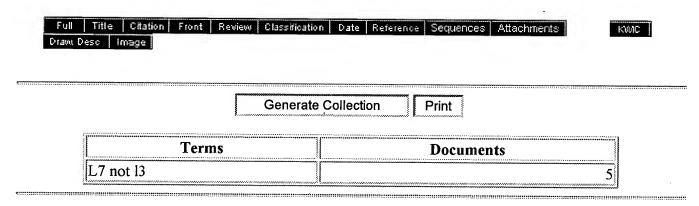
L8: Entry 5 of 5 File: USPT Aug 11, 1998

US-PAT-NO: 5792920

DOCUMENT-IDENTIFIER: US 5792920 A

TITLE: Plants with altered ability to synthesize starch and process

for obtaining them



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